

20010406.qrp v02\_n151.qrl.20010406

Date: Fri, 6 Apr 2001 19:03:12 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2151

QRP-L Digest 2151

Topics covered in this issue include:

- 1) [95755] Re: PIXIE: Broadcast interference  
by MITCHELLRI@aol.com
- 2) [95756] Re: PIXIE: Broadcast interference  
by neil <wa4chq@qsl.net>
- 3) [95757] Re: Antennas, trees, and mating the two...  
by "Mike Yettsko" <myetsko@insydesw.com>
- 4) [95758] Atlanticon NE602's  
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
- 5) [95759] Now Showing: The ARS Sojourner  
by Richard Fisher <ki6sn@yahoo.com>
- 6) [95760] FOX List??  
by Larry East <w1hue@amsat.org>
- 7) [95761] sst-40  
by neil <wa4chq@qsl.net>
- 8) [95762] Re: FOX List??  
by "George, W5YR" <w5yr@att.net>
- 9) [95763] First URL for DSW-X0 PC tune programs & interface  
by "William Mabry" <n4qa@hotmail.com>
- 10) [95764] FOX Season Blues  
by "Karl F. Larsen" <k5di@zianet.com>
- 11) [95765] qrp-l  
by ac5ez@webtv.net (Larry)
- 12) [95766] RS WWVB clock on sale \$20  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 13) [95767] OP: The net!  
by John Wagner <john@neknetwork.com>
- 14) [95768] Re: FOX List??  
by Pete Burbank <plburbank@kih.net>
- 15) [95769] Import Transistor Codes..  
by "Tom Scott" <tomrscott@sterlink.net>
- 16) [95770] Auroras & Solar Flares  
by Mark Sailer <n2jtw@yahoo.com>
- 17) [95771] Items For Sale  
by "Rod Cerkoney" <n0rc@hotmail.com>
- 18) [95772] Re: FOX Season Blues  
by Pete Burbank <plburbank@kih.net>
- 19) [95773] Iowa QRP Club Newsletter available

- by "Adam B. Kanis" <akanis@divis17.ped-gen.uiowa.edu>
- 20) [95774] Re: contacting your REPRESENTATIVE  
by "Brian" <bmurrey@amexol.net>
- 21) [95775] FOX EXtreem K0FRP  
by "al dawkins" <alk0frp@home.com>
- 22) [95776] IP3 . . . Several comments . . .  
by John R Kirby <n3aaz-qrp@juno.com>
- 23) [95777] RE: Antennas, trees, and mating the two...  
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 24) [95778] Re: Simple IP3/MDS stuff (long)  
by "Marty N5NW" <n5nw@onebox.com>
- 25) [95779] Change of e-mail address  
by "William Boose" <n3wst@hydrosoft.net>
- 26) [95780] 3V8SM ..... 900 MW !!!  
by "George Osier" <gosier@twcnny.rr.com>
- 27) [95781] Homebrew Sprint: Log for K7GT  
by agtaylor@llnl.gov
- 28) [95782] Re: Looking for QRP AMP  
by John Birkett <jbirk44@yahoo.com>
- 29) [95783] web page change de KJ5TF  
by "Jim" <sunwatt@starband.net>
- 30) [95784] 15 meters cw hot today  
by Thomas Jennings <jennings@shell11.eznet.net>
- 31) [95785] Ten Tec 1202 SWR/Wattmeter question  
by Michael Goins <mgoins@usa.net>
- 32) [95786] KU7Y arrives in NM  
by "Paul Harden, NA5N" <na5n@rt66.com>
- 33) [95787] SD-20 works great - Extendo Pole = better price?  
by "Jim" <sunwatt@starband.net>
- 34) [95788] Re: Homebrew Sprint: Log for K7GT  
by agtaylor@llnl.gov
- 35) [95789] Boston Area: Dr. Paul Horowitz & Hosstraders  
by David Siegrist <david.siegrist@compaq.com>
- 36) [95790] Re: Import Transistor Codes..  
by "laura halliday" <marsgal42@hotmail.com>
- 37) [95791] FOX: Xtreme Hunt Log for N2WW  
by "Marshall Emm" <mgemm@mtechnologies.com>
- 38) [95792] KI6DS, W7AQK arrive in Ft. Smith aka qrp ground zero  
by "Jay Bromley" <w5jay@alltel.net>
- 39) [95793] Blackout!  
by "John L. Sielke" <w2agn@pobox.com>
- 40) [95794] Dead air  
by "Dan W. Dooley" <dandooley@pipeline.com>
- 41) [95795] Homebrew Quick and Dirty Breadboard  
by Pete Burbank <plburbank@kih.net>
- 42) [95796] RE: Blackout!  
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
- 43) [95797] Re: Blackout! Depression? de AL7FS

by Jim Larsen AL7FS <al7fs@pobox.alaska.net>  
44) [95798] RE: Blackout!  
by Larry Cahoon <lejek@erols.com>  
45) [95799] RE: [fpqrp] Dead air  
by Richard Powell <ripowell@mpna.com>  
46) [95800] Re: [Elecraft] SD-20 works great - Extendo Pole = better price?  
by "Jim" <sunwatt@starband.net>  
47) [95801] Non-inductive Resistors  
by "Brad Hernlem" <alihernlem@hotmail.com>  
48) [95802] PIXIE: Broadcast interference  
by Oleg Borodin <Oleg.Borodin@p11.f35.n5036.z2.fidonet.org>  
49) [95803] HF Blackout?  
by "Rod Cerkoney" <n0rc@hotmail.com>  
50) [95804] What happens when 450-ohm ladder line gets wet ?  
by lenny wintfeld <w2bvh@home.com>  
51) [95805] Re: Non-inductive Resistors  
by "ZOOM" <kandrparker@sympatico.ca>  
52) [95806] Re: What happens when 450-ohm ladder line gets wet ?  
by "Mark J. Dulcey" <mark@buttery.org>  
53) [95807] Re: Non-inductive Resistors  
by "Mike WA8BXN" <hubby2k@hotmail.com>  
54) [95808] OT: ARRL Troubleshooting Certification Course  
by Bill Lazure <n2tpa@juno.com>  
55) [95809] Re: Non-inductive Resistors  
by "Brad Hernlem" <alihernlem@hotmail.com>  
56) [95810] Re: PIXIE: Broadcast interference  
by John Wagner <john@neknetwork.com>  
57) [95811] Re: Non-inductive Resistors  
by "Mike WA8BXN" <hubby2k@hotmail.com>  
58) [95812] Antlers in trees  
by "T.W." <wb5qyt@abq.com>  
59) [95813] Re: Non-inductive Resistors  
by "Phil (VA3UX)" <phil@vaxxine.com>  
60) [95814] Re: Non-inductive Resistors  
by "laura halliday" <marsgal42@hotmail.com>  
61) [95815] Re: What happens when 450-ohm ladder line gets wet ?  
by "Phil (VA3UX)" <phil@vaxxine.com>

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Date: Thu, 5 Apr 2001 19:07:58 EDT  
From: MITCHELLRI@aol.com  
To: qrp-l@lehigh.edu  
Subject: [95755] Re: PIXIE: Broadcast interference  
Message-ID: <c8.12d0ce26.27fe54ce@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

John;

I have built 3 of the pixie's, and all of them have had broadcast interference. I tried ferrite beads, etc., with little success. BTW, I am about 3-4 miles by air from WPRO & WHJJ in East Providence, RI. Grounding the Pixie only made it worse. What DID work for me was putting the antenna thru a tuner. I am using an old MFJ 901 Versa Tuner. When the antenna is tuned, the interference goes away! I hear 80 meter sigs loud & clear.

Leeds Mitchell  
WA1GJF

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Date: Thu, 05 Apr 2001 19:20:52 -0400  
From: neil <wa4chq@qsl.net>  
To: qrp-l@Lehigh.EDU  
Subject: [95756] Re: PIXIE: Broadcast interference  
Message-ID: <3ACCFDD4.C903D21B@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hey John-

I tried some of the cures that were past postings but never had too much luck. I am sure someone has had better luck then me...let us know how it goes.

Neil wa4chq

-----

Date: Thu, 5 Apr 2001 19:34:10 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <nally@talstar.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [95757] Re: Antennas, trees, and mating the two...  
Message-ID: <001f01c0be28\$ee7b4840\$0600a8c0@dad>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> ----- Original Message -----

> From: "Somerville" <somerville@uniserve.com>

>

> Thanks to all who responded. I have decided to go with the slingshot,

> although

> some have doubt it will do more than 60 feet. We shall see. My reason  
for  
> this  
> choice was that I have a spare zebco reel already, and have other  
reasons to  
> want a slingshot (squirrels that need discouraging, but a .22 would  
bring  
> the  
> wrath of the law down on me).  
>  
> Thanks also for the suggestion to try the archives -- I should have  
thought  
> of that! (blush). And for the suggestion to use flourescent paint on  
the  
> weight.  
> I would not have thought of that.  
>  
> John AF4WM

Well, Mossberg makes a special barrel and 'football' that  
turns you 12ga Mossberg 500 into a 'line launcher'. Of  
course, if you have neighbors that object to a 22, then the  
12ga letting rip...

But, interesting enough, it would be more legal than some  
other choices.

It's actually sold to launch lines between boats. It should  
EASILY handle 100', even straight up.

As to your squirrels... Have you tried 22CB? Almost  
noiseless. And when I pull the bolt on my AR-15 and  
put in the 22 conversion, the gas tube acts as an expansion  
chamber. As a result, it really quiets down 22s. In fact,  
Winchester standard velocity 22LRs are almost silent...

Mike

-----  
Date: Fri, 06 Apr 2001 00:11:15 +0100  
From: "Chuck Adams, K7QO" <k7qo@earthlink.net>  
To: qrp-l@Lehigh.EDU  
Subject: [95758] Atlanticon NE602's

Message-ID: <5.0.2.1.0.20010406000940.00a07a30@mail.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Will the individual that sold me NE602s at Atlanticon, please  
email to me. I have a question. I need a few more.

Thanks in advance,

Chuck Adams, K7QO CP-60  
Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo> <http://moon.pr.erau.edu/~adamsc>

TMPS-2001 Mar 27, 2001 Q's = 398 States = 47 Counties = 316 DXCC = 13  
SWL-30 with CMOS 3 keyer and HB Iambic Paddle 0.500W and vee-beam

States Needed AK DE VA

DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1 C08 ZS6 EA8

-----  
Date: Thu, 5 Apr 2001 17:25:32 -0700 (PDT)  
From: Richard Fisher <ki6sn@yahoo.com>  
To: QRP-L Reflector <qrp-l@lehigh.edu>  
Cc: KI6SN@yahoo.com  
Subject: [95759] Now Showing: The ARS Sojourner  
Message-ID: <20010406002532.92744.qmail@web12106.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

No fooling. The April edition of the Adventure Radio Society's monthly  
web magazine, The ARS Sojourner, is hot off the press and just a click  
away at:

<http://www.natworld.com/ars>

This month's edition has a wonderful mix of operating and homebrewing  
articles from our staff of contributing editors and from ARS' talented  
membership.

The April index includes:

- + The Big Four of Ultralight Backpacking, by Russ Carpenter, AA7QU
- + A Happy Tune: Tiny ATUs for the Trail, by Dr. Bob Armstrong, N7XJ
- + Humphreys Peak: QRP on the Summit of Arizona, by Bruce Grubbs, N7CEE
- + The Up-Converted SST, by By John Ceccherelli, KC4TXR
- + High Ambition: Latest Updates to ARS' Highpoints Chronicles, by Richard Fisher, KI6SN
- + Announcing the Third Annual Flight of the Bumblebees, by Russ Carpenter, AA7QU
- + From Our Vantage Point: Redefining ARS' Top of the World, The ARS Sojourner
- + Who's Who and Who's New: New Members of the Adventure Radio Society, by Richard Fisher, KI6SN
- + Upcoming ARS events, including the May Spartan Sprint
- + Results and soapbox comments from the April Spartan Sprint, with special honors to division winners N7RVD and WA9TZE
- + Wilderness Alerts for April 2001 (regularly updated). . . and more.

On behalf of webmaster Russ Carpetner, AA7QU, The ARS Sojourner staff and contributing writers, we hope you enjoy this month's magazine, and appreciate your feedback and editorial contributions for coming editions.

Vy 72,

Richard Fisher, KI6SN  
 Executive editor, The ARS Sojourner  
 Riverside, CA  
 KI6SN@yahoo.com

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 Do You Yahoo!?  
 Get email at your own domain with Yahoo! Mail.  
<http://personal.mail.yahoo.com/>

-----  
 Date: Wed, 04 Apr 2001 18:53:19 -0600  
 From: Larry East <w1hue@amsat.org>  
 To: qrp-l@lehigh.edu  
 Subject: [95760] FOX List??  
 Message-ID: <5.0.2.1.2.20010404185234.00b12150@mail.ida.net>  
 Mime-Version: 1.0  
 Content-Type: text/plain; charset="us-ascii"; format=flowed

Hmmmm... I see the Foxes are back. Guess it's time to postpone again...

-----  
Date: Thu, 05 Apr 2001 20:51:39 -0400  
From: neil <wa4chq@qsl.net>  
To: qrp-l@Lehigh.EDU  
Subject: [95761] sst-40  
Message-ID: <3ACD131B.8866D77B@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Greetings-

Well I sure did have fun building from scratch, the SST-40. I get about 13 khz with the vxo and have the output set at just under 1 watt. It really is a great design. I may have to build another for a differant band. Hit on the link to see some pictures of my version of the SST-40.

<http://www.angelfire.com/pe2/hott/sst.html>

72-

Neil wa4chq

-----  
Date: Thu, 05 Apr 2001 19:53:27 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: w1hue@amsat.org  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [95762] Re: FOX List??  
Message-ID: <3ACD1387.5CAE7149@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Look out for that door knob! <:}

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Larry East wrote:



>

> Hmmm... I see the Foxes are back. Guess it's time to postpone again...

--

-----  
Date: Thu, 05 Apr 2001 20:58:43 -0400  
From: "William Mabry" <n4qa@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [95763] First URL for DSW-X0 PC tune programs & interface  
Message-ID: <F462Mb1s7n1T2NqFJ3s00000293@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Hello, gang.

Many thanks to Jeff Davis, N9AVG, for being the first to publish the subject programs and interface information.

The files may be downloaded from <http://www.callingcq.org/n4qa.htm>

73,  
Bill, N4QA

-----  
Get your FREE download of MSN Explorer at <http://explorer.msn.com>

-----  
Date: Thu, 5 Apr 2001 20:32:16 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: <qrp-l@lehigh.edu>  
Subject: [95764] FOX Season Blues  
Message-ID: <Pine.LNX.4.31.0104052026250.1648-100000@cannac.ampr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Most messages to QRP-L dealing in Fox Hunt matters are like this one. It's done so people who \*HATE\* these messages can apply the delete key on their viewer to them.

Near a Fox Hunt theres lots of messages and I know it's a chore but please just delete and don't un-subscribe. I \*HATE\* all the messages about the K1 and K2 radios. I have read many and they say nothing except Pete built his and it appears to work. So my D key gets a lot of extra use.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Thu, 5 Apr 2001 21:36:00 -0500 (CDT)  
From: ac5ez@webtv.net (Larry)  
To: qrp-l@lehigh.edu  
Subject: [95765] qrp-l  
Message-ID: <21353-3ACD2B90-1563@storefull-115.iap.bryant.webtv.net>  
Content-Disposition: Inline  
Content-Type: Text/Plain; Charset=US-ASCII  
Content-Transfer-Encoding: 7Bit  
MIME-Version: 1.0 (WebTV)

I read almost every post on qrp-l and enjoy all the different things that come up. Cw, little radios, antennas, qrp has it all.

K1zw  
Larry  
Qcwa

-----  
Date: Thu, 5 Apr 2001 23:10:06 -0500  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: "INTERNET:Peter\_Simpson@ne.3com.com" <Peter\_Simpson@ne.3com.com>  
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>, ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>  
Subject: [95766] RS WWVB clock on sale \$20  
Message-ID: <200104052210\_MC2-CB79-7101@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
charset=ISO-8859-1  
Content-Disposition: inline

Peter:

Well the local RS says they are selling for \$29.99. I questioned this, but they said their computer shows this figure. Perhaps this is an in-store price, etc. I would snap one up at the lower figure, but don't need it all

that badly. Oh well.

72,

--Doc/K0EVZ

-----  
Date: Thu, 05 Apr 2001 23:23:32 -0400  
From: John Wagner <john@neknetwork.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [95767] OP: The net!  
Message-ID: <3ACD36B4.E18AED0A@neknetwork.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Wow, checked into my first net this evening. I've been meaning to check into the NE QRP net for some time, but usually something else came up (like the Fox hunts!).

Well, I looked up and saw it was just after 9pm so I got on the radio and gave a listen for a while. The net op (WQ1RP) was running strong and I copied a few stations giving their report. There was a break and it seemed appropriate so I dropped my call. The netop came back with a KB1? and I dropped it again. He told me to wait and turned the net over to someone else (I wrote the calls down, but don't have 'em handy). Another station went after that and then it was my turn. I sent the netops RST (5nn - strong here!) my name, QTH, pwr and wx and turned it back. The op thanked me for checking in and the rpt (QNI?) and turned it over to another station. I listened for a while longer but then had to turn off the radio and take care of some other stuff.

That was a lot of fun! Most of the stations were easy copy with steady fists. I plan on checking in again next week. Wish I started doing this net thing a long time ago!

73,

John, KB1ENS

--

John Wagner - john@neknetwork.com  
Web page: <http://www.neknetwork.com>

-----  
Date: Thu, 05 Apr 2001 23:35:59 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: w1hue@amsat.org, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>



Arrow Electronics  
9500 SW Nimbus #E  
Beaverton, OR 97008  
503-524-1045 - Office  
503-629-8090 - Branch  
503-645-0611 - Fax  
503-703-2032 - Cell  
503-538-5839 - Home  
KD7DMH  
\_/\_/\_/\_/\_/\_/\_/\_/\_/\_/\_/\_/\_/\_/\_/\_

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Date: Fri, 06 Apr 2001 00:20:55 -0400  
From: Mark Sailer <n2jtw@yahoo.com>  
To: qrp-l <qrp-l@lehigh.edu>, "njqrp@njqrp.org" <njqrp@njqrp.org>  
Subject: [95770] Auroras & Solar Flares  
Message-ID: <3ACD4427.ECB2524B@yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

For those of you who follow Paul Harden NA5N solar updates, this might be of interest to you.  
I was doing a search on auroras and stumbled across this site with thousands of pictures.  
There are some that were from the flare on/around March 31st.  
All I can say is COOL and to actually see the effects on our atmosphere.

[http://climate.gi.alaska.edu/Curtis/aurora/aurora.html#NEWEST IMAGES](http://climate.gi.alaska.edu/Curtis/aurora/aurora.html#NEWEST_IMAGES)

Enjoy.  
Mark  
N2JTW

-----  
Do You Yahoo!?  
Get your free @yahoo.com address at <http://mail.yahoo.com>

-----  
Date: Thu, 5 Apr 2001 22:32:10 -0600  
From: "Rod Cerkoney" <n0rc@hotmail.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, "ncarc-l"

<ncarc@qth.net>

Subject: [95771] Items For Sale

Message-ID: <OE19AeRaNgEpTX5V3Gy000001d1@hotmail.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Kenwood TS-570S(G) \$900 shipped CONUS

Like new condition. This radio is about 2 years old, I am the second owner and it is absolutely top-notch. I just don't use it. Included with the radio is an INRAD 400Hz CW filter. Along with the DSP functions this is a dynamite CW rig. And throttles back to 5W. I've never run it at more than 50W. This is to model that covers 160-6m.

Full specs at:

<http://www.kenwood.net/products/specifications.cfm?radio=TS-570S&selection=Amateur>

Astron SS30 Power Supply \$100 shipped CONUS

30 amp peak, 25 amp continuous switch 3 years old in excellent condition.

MFJ 949E Tuner \$115 shipped CONUS

3 years old and in excellent condition

All items supplied with OEM packaging and Doc's and accessories. Pictures available (on a web page) upon request.

#### PACKAGE DEALS

TS-570S(G) + SS30 \$980 shipped CONUS (\$20 savings)

TS-570S(G) + MFJ-949E \$995 shipped CONUS (\$20 savings)

All three items together \$1065 shipped CONUS (\$50 savings)

73, Rod N0RC  
Ft Collins CO

-----  
Date: Fri, 06 Apr 2001 00:45:59 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: k5di@zianet.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [95772] Re: FOX Season Blues  
Message-ID: <5.0.2.1.0.20010406003426.00a83150@KIH.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 08:32 PM 4/5/2001 -0600, Karl F. Larsen wrote:

> Most messages to QRP-L dealing in Fox Hunt matters are like this  
>one. It's done so people who \*HATE\* these messages can apply the delete  
>key on their viewer to them.

>  
> Near a Fox Hunt theres lots of messages and I know it's a chore  
>but please just delete and don't un-subscribe. I \*HATE\* all the messages  
>about the K1 and K2 radios. I have read many and they say nothing except  
>Pete built his and it appears to work. So my D key gets a lot of extra  
>use.

>  
>Yours Truly,

>  
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Karl,  
Why are you using my name? Actually I built an NC-20, an NW-40, a set of  
homebrew paddles  
and a homebrew bug and most of a homebrew 160 meter Xmtr using a Collins  
PTO. None of these  
were posted.  
Use Bubba or Junior instead. :-)  
73 Pete  
NV4V

-----  
Date: Fri, 6 Apr 2001 06:44:43 -0500 (CDT)  
From: "Adam B. Kanis" <akanis@divis17.ped-gen.uiowa.edu>  
To: qrp-l@lehigh.edu  
Subject: [95773] Iowa QRP Club Newsletter available

Message-ID: <Pine.LNX.4.04.10104060633380.21982-1000000@divis17.ped-gen.uiowa.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi all,

The Fall/Winter 2000-2001 edition of the Journal of the Iowa QRP Club is now available by FTP.

<ftp://divis17.ped-gen.uiowa.edu/pub/iaqrp-l/journal>

NOTES: NO WWW. divis17 has 2 numerals (ie, 17, not l7).  
The file is available in 2 formats:

|                                         |                                     |
|-----------------------------------------|-------------------------------------|
| <a href="#">fallwinter2000_2001.doc</a> | (MicroSoft Word format, BIG 2.5 Mb) |
| <a href="#">fallwinter2000_2001.pdf</a> | (Acrobat reader format, 860 kb)     |

BTW- Don't thank me - I just post them onto the server. the real work was done by John, NU0V, and other members of the Iowa QRP Club.

72,  
--adam, AK0P  
[adam-kanis@uiowa.edu](mailto:adam-kanis@uiowa.edu)

-----  
Date: Fri, 6 Apr 2001 08:04:26 -0400  
From: "Brian" <[bmurrey@amexol.net](mailto:bmurrey@amexol.net)>  
To: <[wlfisher@bellatlantic.net](mailto:wlfisher@bellatlantic.net)>, "Low Power Amateur Radio Discussion" <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [95774] Re: contacting your REPRESENTATIVE  
Message-ID: <002f01c0be91\$baa2a310\$3d05080a@cincom.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Our National Parks are all part of the United Nations Biosphere project. We're losing control of them. I don't want the UN having a shot at out freqs.

----- Original Message -----  
From: "laura fisher" <[wlfisher@bellatlantic.net](mailto:wlfisher@bellatlantic.net)>  
To: "Low Power Amateur Radio Discussion" <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Sent: Thursday, April 05, 2001 12:12 PM  
Subject: contacting your REPRESENTATIVE



> Please contact your local Congress persons and ask them to vote  
> for BILL NUMBER HR-817. and your United States Senators to vote  
> for bill number S-549. YOUR Congress persons and Senators are listed don  
the ARRL web site. These two Bill are to protect AMATEUR RADIO  
FREQUENCIES MAKE THEM LIKE A NATIONAL PARK. Where they can not be sold or  
changed

>  
>  
>

-----  
Date: Fri, 6 Apr 2001 00:45:40 -0600  
From: "al dawkins" <alk0frp@home.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [95775] FOX EXtreem K0FRP  
Message-ID: <000101c0be94\$f13cba20\$0300a8c0@home>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I took my Sierra to California a 1/4 wave in a bush outside my Hotel (NADA)  
nothing. Nothing heard at all except one station in California at  
Sundown. He must have been a 100 watter on 7.031.5 he was S3. I wanted to  
work my station W0CQC (at K0FRP's home qth) but no such luck. Big difference  
from a wire in the bush than a Yagi 2 el at 70 ft. I picked the wrong day  
for a trip to LA. Now I feel for you guys with limited antennas.

I was ready but nobody there.

>From the e-mails and the Colorado threesome of W0CQC, N1FN and N2WW, aLL at  
75 q's +/- a few.

I missed a good one.

REMOTE BASE VIA INTERNET got to work on that for the next trip. PC anywhere  
and RS232 control MAYBE ??

Al K0FRP

-----  
Date: Fri, 6 Apr 2001 08:33:10 -0400  
From: John R Kirby <n3aaz-qrp@juno.com>  
To: qrp-1@Lehigh.EDU

Subject: [95776] IP3 . . . Several comments . . .  
Message-ID: <20010406.083454.-163279.1.n3aaz-qrp@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Several comments . . .

1) RE: Subject: What is IP3 telling me?

My (N3AAZ) error and corrected below. . .  
. . . should have read 120 mW (NOT 120 W) . . .

> 21 dBm is approximately equal to 0.12 W  
> -4.9 dBm is approximately equal to 0.0003 W  
> 120 mW vs 300 uW is a HUGE 25.9 dB delta.

Thanks to all.

Also note . . . the delta (25.9 dB) was / is correct and did not change.

2) Another possible reason for the huge delta (a list member pointed out) . . .

. . . . Was the receiver pre-amp ON or OFF ?

3) Be sure to read . . .  
Subject: Simple IP3/MDS stuff . . .

Paul did an OUTSTANDING job, very articulate, thanks . . .

73  
John  
N3AAZ  
FM 19 xa

---

GET INTERNET ACCESS FROM JUNO!  
Juno offers FREE or PREMIUM Internet access for less!  
Join Juno today! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 6 Apr 2001 08:50:38 -0400  
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>  
To: "'nally@talstar.com'" <nally@talstar.com>, Low Power Amateur Radio Discussion  
<qrp-1@Lehigh.EDU>  
Subject: [95777] RE: Antennas, trees, and mating the two...  
Message-ID: <078F21595FA7D411B87B00805FA728E64A468C@atlexc02ntms.h boc.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Alternately, a "small" piece of orange or yellow barrier tape will help visibility.

Jerry  
W3CDE

-----Original Message-----  
From: John Nall [mailto:nally@talstar.com]  
Sent: Thursday, April 05, 2001 6:56 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Antennas, trees, and mating the two...

----- Original Message -----  
From: "Somerville" <somerville@uniserve.com>

> I have tried (a), (b), and (d). (a) Slingshot proved the best, but not  
> all  
> votes are in. The best results with a sling shot require a fairly hefty  
> weight; without flourescent paint the weight was impossible to see.

Thanks to all who responded. I have decided to go with the slingshot,  
although  
some have doubt it will do more than 60 feet. We shall see. My reason for  
this  
choice was that I have a spare zebco reel already, and have other reasons to  
want a slingshot (squirrels that need discouraging, but a .22 would bring  
the  
wrath of the law down on me).

Thanks also for the suggestion to try the archives -- I should have thought  
of that! (blush). And for the suggestion to use flourescent paint on the  
weight.  
I would not have thought of that.

John AF4WM

-----  
Date: Fri, 6 Apr 2001 08:05:21 -0500  
From: "Marty N5NW" <n5nw@onebox.com>  
To: "QRP" <qrp-1@lehigh.edu>  
Subject: [95778] Re: Simple IP3/MDS stuff (long)  
Message-ID: <000901c0be9a\$407319e0\$0200a8c0@n5nw>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Thanks for the summary, Paul. I still have some questions, though, as I'm a bit slow on the uptake.

I guess I'm really asking if there is a practical, real-world difference in various receiver measures. For example, I doubt seriously if the MDS would ever be challenged on HF. Rejection in a crowded band, however, is another story.

That seems to be what third-order IMD dynamic range is measuring. What is the dynamic range in the presence of strong out-of-band signals. I understand that part (I think). But what is the likelihood of challenging even the two-tone third-order IMD dynamic range? As the ARRL points out in their lab testing article (QST, October 1994), an IMD DR of 85 is overkill if only 60dB is required.

Perhaps I'm thinking of it incorrectly, but what is the difference between S-9 and S-0 expressed in dB? 60? 90? I don't recall, but AC6V's web site <http://www.ac6v.com/sunit.htm> appears to indicate that 6dB/s-unit would be on the aggressive side. That would result in a total range of 60dB from S-9 to S-0.

My question is more about the IP3 number. The ARRL lab article (again, Oct. 1994, QST) only has this brief paragraph:

"Another parameter used to quantify receiver performance in QST product reviews is the third-order intercept point (IP3). This is the extrapolated point at which the desired response and the third-order IMD response intersect. Greater IP3 indicates better receiver performance."

That's all there is. What is "desired response"? I've gotten e-mail from several people talking about compression points, and where the response curve goes non-linear. I even understand (to a point) how the IP3 is calculated. What I don't understand is the significance of a negative IP3

reading, and the value of the difference between two IP3 values. For example, the K-2 has an 80-meter IP3 of +20.9 dBm, while the IC-746 has an 80-meter IP3 of +17dBm (per the ARRL product reviews). The FT-100 has an 80-meter IP3 of +6.3 dBm, while the IC-706MkIIG is -3.4 dBm. Each of these measures are preamp off.

So, what do the IP3 numbers tell us about real-world receiver performance? Probably, it describes the relationship between other receivers on a relative basis. Unless someone would like to add to my limited knowledgebase, it would appear there are no good or bad IP3 numbers, and that IP3 only has utility in comparing to the IP3 of another receiver. IOW, the IP3 of -3.4 dBm for the IC-706MkIIG tells us nothing, until we compare to other radios. It would seem that the only qualitative statement we can make after knowing IP3 numbers is that one radio is more or less susceptible to IMD interference than another. We cannot say if a particular radio's IP3 is objectionable or not. That measure is in the IMD DR figure. If that number is acceptable (probably, greater than 85 dB or so) receiver performance will be adequate.

So, in sum, if I understand correctly (and that fact is still very much in doubt), the IP3 figures quoted in the ARRL rig reviews (and, contrary to what Paul's message indicates, rarely if ever specified by the manufacturer) are not particularly useful except at the margins of receiver performance. Those margins are typically in low-noise and very high quality antenna situations, as may be encountered in top contest or DX stations. Those will be the only stations that will notice the difference in IP3.

Please, feel free to correct my understanding. As I said, it is very much in doubt.

--

72 es 73 de Marty, N5NW

--

Lakeland (Memphis), Tennessee  
<http://marty.w.tripod.com/>

-----

Date: Fri, 6 Apr 2001 09:07:27 -0400  
From: "William Boose" <n3wst@hydrosoft.net>  
To: "Joe & Pat Zeblicky" <palzeb@aol.com>, "Jack & Doris Yates" <jyates@rollinrollin.com>, "Bill & Martha Verity" <mvskp@aol.com>, "James & Dorothy Throne" <jthrone@throneco.com>, "Howard & Janice Styer" <janstyer@sunlink.net>, "Jerry & Dorthy Stofer & Lewis" <maxstof@hotmail.com>,  
Subject: [95779] Change of e-mail address  
Message-ID: <000701c0be9a\$a4744c20\$c0e49ed1@williamboose>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This note is going to everyone who happens to be in our address book. If you don't care about the subject, just delete this message. We are moving to a different campground today. We will be there until October. We will not have internet access there, and will be getting a pocketmail address, maybe yet today. The new address will probably be n3wst@pocketmail.com . I will send out another message when I know for sure. I will change the reflected address, n3wst@arrl.net, so that one will continue to be valid.

Bill & Lois Boose

-----  
Date: Fri, 6 Apr 2001 09:08:53 -0400  
From: "George Osier" <gosier@twcnny.rr.com>  
To: <qrp-1@lehigh.edu>  
Subject: [95780] 3V8SM ..... 900 MW !!!  
Message-ID: <001101c0be9a\$bb1c29c0\$25191842@twcnny.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello All !!!

Just got 3V8SM on 10 meter CW ...28017 .....  
He only stayed for a while ...condx not great yet ...  
noisey ..... number 77 worked for milliwatt countries for me !!!!

73s  
George , N2JNZ / QRPp

-----  
Date: Fri, 6 Apr 2001 08:31:11 -0700 (PDT)  
From: agtaylor@llnl.gov  
To: n2cq@arrl.net  
Cc: qrp-1@lehigh.edu  
Subject: [95781] Homebrew Sprint: Log for K7GT  
Message-ID: <200104061531.IAA23699@poptop.llnl.gov>  
MIME-Version: 1.0

Content-Type: TEXT/plain; CHARSET=US-ASCII

Here is the log for the Homebrewer Sprint of two weeks ago.

op/call Allan K7GT  
QTH Cedar Mesa UT  
rig Elecraft K1

all QSOs on 40m cw

|      |        |    |                                                     |
|------|--------|----|-----------------------------------------------------|
| 0436 | WU0L   | CO |                                                     |
| 0437 | K5ZTY  | TX |                                                     |
| 0438 | K0FRP  | CO |                                                     |
| 0439 | N0RC   | CO |                                                     |
| 0442 | K7RE   | AZ |                                                     |
| 0443 | W7GT   | UT | --(not really in the contest, but he called and we  |
| 0449 | W0RSP  | SD | had a nice chat. Always time to chat with a buddy!) |
| 0451 | AK7Y   | AZ |                                                     |
| 0452 | K0PC   | MN |                                                     |
| 0453 | AA0B   | MO |                                                     |
| 0454 | N9NE   | IL |                                                     |
| 0455 | KM5VY  | NM |                                                     |
| 0456 | WA6OWM | CA |                                                     |
| 0457 | K5SA   | TX |                                                     |
| 0458 | N5JI   | TX |                                                     |
| 0459 | WB6HQB | CA |                                                     |

16 Qs, 10 SPC.

Not too bad for coming in very late...

73 Allan K7GT

k7gt@arrl.net , etc.

--

Allan G Taylor

agtaylor@llnl.gov

-----

Date: Fri, 6 Apr 2001 08:49:40 -0700 (PDT)  
From: John Birkett <jbirk44@yahoo.com>  
To: MITCHELLRI@aol.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [95782] Re: Looking for QRP AMP

Message-ID: <20010406154940.16111.qmail@web10007.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Check out the Ramsey QAmP kit at  
<http://ramseyelectronics.com/hk/hkarg.htm>  
(I have no experience with this kit. Looks like it  
might be what you're looking for, however.)

John, KC2HTP

--- MITCHELLRI@aol.com wrote:  
> I am looking for a kit for a qrp amp that will take  
> a Pixie II or TT-2  
> x-mitter or Ramsey 20 mtr rig and transform them  
> into a powerhouse, the envy  
> of 20 & 40 meters. The goal is to get up to 5  
> watts, max, so I can still use  
> batteries. Any help is appreciated, either here, or  
> at mitchellri@aol.com or  
> WA1GJF@arrl.  
>  
> Thanks in advance.  
>  
> Leeds Mitchell

-----  
Do You Yahoo!?  
Get email at your own domain with Yahoo! Mail.  
<http://personal.mail.yahoo.com/>

-----  
Date: Fri, 6 Apr 2001 12:10:21 -0500  
From: "Jim" <sunwatt@starband.net>  
To: <qrp@yahoogroups.com>, "QRP-L" <qrp-L@Lehigh.edu>  
Subject: [95783] web page change de KJ5TF  
Message-ID: <001c01c0bebc\$7e1f8d60\$9a354794@computer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I changed ISP's and must relocate some webpages.

If you have a link to my site, please change it to;



<http://sunwatt.homestead.com/Main.html>

Or;

<http://www.qsl.net/kj5tf/>

Its a pain to relocate everything in spring. So busy with everything needing to be cleaned, or repaired.

But please let me know if there is any problem with my new site.

73's de Jim KJ5TF

"All MilliWatts, All The Time"

-----  
Date: Fri, 6 Apr 2001 13:10:50 -0400  
From: Thomas Jennings <jennings@shell1.eznet.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [95784] 15 meters cw hot today  
Message-ID: <20010406131050.A29982@shell1.eznet.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline

Gang,  
I was out at lunch as /M and 15 Meters CW is a very busy band! Lots of DX out there. The band was so busy that both QSOs I had heavy QRM was present.

73,  
Tom, kv2x/m

-----  
Date: 6 Apr 2001 12:30:40 EST  
From: Michael Goins <mgoins@usa.net>  
To: qrp-1@lehigh.edu  
Subject: [95785] Ten Tec 1202 SWR/Wattmeter question  
Message-ID: <20010406173040.15160.qmail@aw161.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

I'm pretty serious about running 1 watt (99% of the time), and currently =  
use a  
WM-2 wattmeter with the Ten Tec Scout 556, Kenwood 440, SWL DSW-30, etc. =

as a  
power indicator. I like the looks of the Ten Tec 1202 with the 556, but d=on't  
remember hearing much on the reflector about it, good or bad. Guess I'm  
looking for comments (a guy can't have too many kits!).

mike  
wb5yjx

-----  
Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

-----  
Date: Fri, 6 Apr 2001 11:37:37 -0600 (MDT)  
From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: qrp-l@lehigh.edu  
Subject: [95786] KU7Y arrives in NM  
Message-ID: <Pine.SUN.4.10.10104061127270.13145-1000000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just a quick update that Ron KU7Y and lovely xyl Carol arrived in New Mexico this week. Spent a little time down in Las Cruces with Tim K5OI and Karl K5DI, then arrived here in Socorro last night. They are both looking good and seem to be enjoying their retirement. Will be giving them the nickel tour of the VLA and the Trinity Site (open saturday only) and a few other things.

Ron says hi to all.

72, Paul NA5N

-----  
Date: Fri, 6 Apr 2001 12:54:40 -0500  
From: "Jim" <sunwatt@starband.net>  
To: "K2-L" <elecraft@qth.net>  
Cc: <qrrp@yahoogroups.com>, "QRP-L" <qrp-L@Lehigh.edu>  
Subject: [95787] SD-20 works great - Extendo Pole = better price?  
Message-ID: <002801c0bec2\$ae51c060\$9a354794@computer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I already have the Black Widow 20ft pole. I've used it on the beach, and in my north 40 field with great results.

I searched <http://www.thesportsauthority.com/> and found an even price for a 20ft pole. Its called the South Bend Extendo Pole. At \$14.97 the price is right. Looking at the best picture they have, it looks just like what I have here.

<http://www.thesportsauthority.com/product/index.jsp?productId=8449&position=4>

I didn't make the SLV. I just cut a 14.060MHz 1/4 wave stinger and two radials.

I soldered the bottom of the stinger to a so239, and soldered a 3" lead wire to one of the ground holes on the so239 coax connector.

There is an eye loop at the top of the pole, where I tie the top of the stinger. On 20M the pole is just long enough so everything fits great.

I stab a 2ft long piece of construction rebar in the sand and slide the big end of the pole down on that. This is all it takes to keep the pole standing tall.

Some old fiberglass 24" tent poles are stuck in the ground 1/4 wave length away from the base of the pole 180 degrees from each other. The 2 radials are off the ground, and perform better that way.

To change bands, I have a twisted wire connection I can separate and the stinger then becomes resonant for 21.060MHz. At the twist point I have knots tied in the wire, and a piece of string holds both sections together, but dos'nt allow the wires to touch.

I then roll up the radials for 1/4 wave, at 21mHz, and I have knots tied at the proper length on each radial for best SWR.

When I go portable I keep it simple and chose two bands. Doing more than that when portable gets too complicated for my tastes.

Check out some pics of my portable QRP-QRPp setup at my webpage. The antenna can be seen there, but not in great detail.

<http://sunwatt.homestead.com/slategap.html>

But it might give you some idea of how simple this antenna is.

73's de Jim KJ5TF

"All Milliwatts, All The Time"  
<http://sunwatt.homestead.com/Main.html>

-----  
Date: Fri, 6 Apr 2001 11:04:15 -0700 (PDT)  
From: agtaylor@llnl.gov  
To: qrp-l@lehigh.edu  
Subject: [95788] Re: Homebrew Sprint: Log for K7GT  
Message-ID: <200104061804.LAA11387@poptop.llnl.gov>  
MIME-Version: 1.0  
Content-Type: TEXT/plain; CHARSET=US-ASCII

Of course, all the times given are off by one hour. Do a global replace of 04 with 03 and it should be about right. Thinking in PST, operating in MST...

K7GT

--

Allan G Taylor

agtaylor@llnl.gov

-----  
Date: Fri, 06 Apr 2001 14:06:27 -0400  
From: David Siegrist <david.siegrist@compaq.com>  
To: qrp-l@lehigh.edu  
Subject: [95789] Boston Area: Dr. Paul Horowitz & Hosstraders  
Message-ID: <3ACE05A3.BC2440E2@compaq.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello folks,  
For those of you in the greater Boston area...

This coming Thursday, April 12th, the Amateur Telescope Makers of Boston (the equivalent of what a QRP club is for Astronomy) will host at its monthly meeting:

Dr. Paul Horowitz, Professor of Physics and Electronics  
at Harvard University

Dr. Horowitz is the author of 'The Art of Electronics', and started the electronics course in the Harvard Laboratories.

Dr. Horowitz' subject is "Flash! Searching for Alien Lasars using Optical SETI". Even though his topic is not radio, it should still be quite interesting, and I understand he is an excellent speaker.

Meetings start at 8:00pm in Philips Hall at the Center for Astrophysics at Harvard U. There are generally 100-150 folks out for the meetings, so don't feel like you will stand out...

On another note...Hosstraders has changed date and location:  
May 4,5 in Hopkinton, NH.

Perhaps QRP NE will get together up there..

73 & clear skies

dave /nt1u

--

David Siegrist  
Compaq Computer Corp.      Alpha Processor Development  
334 South St.              SHR 3-2/R28  
Shrewsbury, Ma. 01545

-----  
Date: Fri, 06 Apr 2001 18:17:23  
From: "laura halliday" <marsgal42@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [95790] Re: Import Transistor Codes..  
Message-ID: <F121MWuLn5U9T3TGJ2T00000154@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Tom KD7DMH wrote about JIS semiconductor part numbers:

>...I had not realized they followed a pattern, but  
>the ones I know of do seem to follow this key.

|      |     |       |
|------|-----|-------|
| >2SA | PNP | RF    |
| >2SB | PNP | Audio |
| >2SC | NPN | RF    |
| >2SD | NPN | Audio |
| >2SK | FET |       |

>3SK     Dual Gate FET  
>2SG     SCR

Additions:

1S   = diode  
2SJ = P-channel FET  
2SK = N-channel FET

The European system has a bunch of codes too. The first letter specifies the semiconductor material:

B = silicon  
C = GaAs (and possibly other 3-5 compound semiconductors)

There are others that you don't see very often (germanium devices, CdS photocells, etc.).

The second letter specifies the device type. I don't know them all, but a few that come up a lot are:

C = small-signal transistor  
F = RF transistor  
G = monolithic amplifier  
L = power transistor  
S = MOSFET  
U = power FET (?)

A third letter means the device is an industrial one. After that is a serial number.

Some sample devices: BF199, BFR91, CLY5, BUZ54, BGY36.

Laura Halliday VE7LDH        "Que les nuages soient notre  
Grid: CN89mg                    pied a terre..."  
ICBM: 49 15.042 N 122 59.053 W       - Hospital/Shafte

---

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

-----

Date: Fri, 6 Apr 2001 12:19:38 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: qrp-1@lehigh.edu  
Subject: [95791] FOX: Xtreme Hunt Log for N2WW  
Message-ID: <3ACDB45A.30161.753884@localhost>  
MIME-Version: 1.0

Content-type: text/plain; charset=ISO-8859-1  
Content-transfer-encoding: Quoted-printable

>From N2WW....

Hi everybody, propagation was not good ( 76 QS0 ), but it is fun. 73,  
Larry N2WW / UA6HZ

Valeriy Agabekov  
6094 S. Waco St., Aurora, CO 80016-1192 USA  
720-535-8988  
n2ww@home.com

##

FOX HUNT  
Call: N2WW  
April 4, 2001  
Freq: 7036,0 kHz  
Mode: CW  
Rig: FT1000D@5W  
Ant: C4 (rot. Dipole @60=92)  
Exchange: 559 C0 LARRY 5W  
Total QS0=92s: 76

|       |        |                  |
|-------|--------|------------------|
| 01-00 | W0UFO  | 569 MN MERT 5W   |
| 01-00 | KU7Y   | 559 MN RON 5W    |
| 01-01 | VA6RF  | 559 AB EARL 5W   |
| 01-02 | KK5LD  | 559 TX DAN 5W    |
| 01-03 | AK7Y   | 599 AZ GREG 5W   |
| 01-04 | K5NZ   | 559 TX MIKE 3W   |
| 01-05 | N1LN   | 559 TX BRUCE 5W  |
| 01-05 | N6MM   | 579 CA HARVEY 5W |
| 01-06 | W5HB   | 559 TX BILL 5W   |
| 01-07 | KB7WW  | 559 OR ART 5W    |
| 01-07 | K5AAR  | 559 OK DON 5W    |
| 01-07 | W0JOE  | 559 MO JOE 5W    |
| 01-09 | K10J   | 579 TX OJ 5W     |
| 01-09 | K5DW   | 559 TX DON 5W    |
| 01-11 | WV9N   | 559 OH RANDY 5W  |
| 01-12 | W5YR   | 559 TX GEORGE 5W |
| 01-13 | AA7XA  | 559 OR FRANK 5W  |
| 01-13 | WA50JE | 559 TX DANNY 5W  |
| 01-14 | K7FD   | 559 OR JOHN 5W   |
| 01-15 | WA9TZE | 559 WI JIM 5W    |
| 01-16 | N5EN   | 559 TX STEVE 5W  |

|       |         |                   |
|-------|---------|-------------------|
| 01-16 | KS4L    | 559 AL RANDY 5W   |
| 01-19 | KA1DDB  | 559 MI MIKE 5W    |
| 01-20 | K8CV    | 559 MI WALT 5W    |
| 01-21 | K5ZTY   | 559 TX BILL 5W    |
| 01-20 | N0EHW   | 559 MO TIM 5W     |
| 01-22 | W9XU    | 559 WI LON 5W     |
| 01-23 | WB6MFS  | 559 CA JOHN 2W    |
| 01-24 | K4BYF   | 559 FL JACK 5W    |
| 01-25 | W0NF    | 559 CO PAM 5W     |
| 01-27 | NQ7X    | 559 AZ FLOYD 5W   |
| 01-29 | K0MP    | 559 CO BILL 5W    |
| 01-31 | AD6JV   | 559 CA BILL 5W    |
| 01-32 | K0MP    | 559 CO BILL 5W    |
| 01-33 | W9UQB/7 | 559 AZ MIKE 5W    |
| 01-33 | KQ7M    | 559 CO BILL 5W    |
| 01-34 | K7KY    | 559 GARY 5W       |
| 01-38 | WB6FLD  | 569 TX RICK 3W    |
| 01-39 | W0CH    | 579 MO DAVE 5W    |
| 01-39 | KI0II   | 559 CO RON 5W     |
| 01-40 | AC5JH   | 559 OK TOM 5W     |
| 01-41 | W5USJ   | 559 TX CHUCK 3W   |
| 01-45 | KF0N    | 579 IA LARRY 2W   |
| 01-48 | K5JHP   | 559 TX BILL 5W    |
| 01-49 | W2XN    | 559 FL FRED 5W    |
| 01-51 | N0RC    | 599 CO ROD 5W     |
| 01-54 | AG0T    | 559 ND TODD 2W    |
| 01-55 | K5AAD   | 559 TX DON 5W     |
| 01-58 | K5VCC   | 599 NH DALE 5W    |
| 02-01 | KB9YIG  | 559 IN TONY 5W    |
| 02-02 | N0HRL   | 559 MN KEN 5W     |
| 02-04 | KI0RB   | 559 CO VINCE 5W   |
| 02-05 | AF4PP   | 559 GA CHUCK 4W   |
| 02-06 | K6VNX   | 579 CA ARLEN 5W   |
| 02-07 | K8KFJ   | 579 WV GARY 5W    |
| 02-09 | N0TU    | 599 CO STEVE 5W   |
| 02-10 | AB5XQ   | 559 AR BILL 5W    |
| 02-11 | WA0SXV  | 599 MO MIKE 2W    |
| 02-12 | W6ABC   | 599 CA JACK 5W    |
| 02-13 | KG6ELY  | 559 CA RON 5W     |
| 02-14 | AA3UR   | 599 PA DAVE 2W    |
| 02-15 | AD8DF   | 559 MI ED 5W      |
| 02-16 | NK7M    | 559 AZ BOB 5W     |
| 02-18 | K2PC    | 559 NY PETE 5W    |
| 02-19 | KK7GG   | 559 OR MIKE 5W    |
| 02-22 | N3JD    | 559 PA JOE 5W     |
| 02-26 | NU8S    | 559 OH DENNIS 5W  |
| 02-29 | K500R   | 559 TX VIRGIL 5W  |
| 02-39 | W4NJK   | 559 CA CHARLIE 5W |



02-31 W7ILW 559 AZ HOWARD 5W  
02-32 AF4LQ 579 KY MIKE 500mW  
02-35 KG4HKM 549 AL JOHN 5W  
02-38 WS4S 569 TN CONARD 5W  
02-40 KC7TUP 559 ID DICK 5W  
02-42 K2QO 559 NY MARK 5W  
02-54 AA7EQ 559 AZ BOB 5W  
-----

-----  
Date: Fri, 6 Apr 2001 14:25:37 -0500  
From: "Jay Bromley" <w5jay@alltel.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [95792] KI6DS, W7AQK arrive in Ft. Smith aka qrp ground zero  
Message-ID: <000701c0becf\$5cfff0b20\$6518150a@alltel.net>

Guys, we just pulled into Ft. Smith after a nice leisurely drive from Tulsa.  
(No more exciting airplane rides for me). Jim Cates, Vern Wright, Dennis  
Foster, Tony Fishpool, Graham Firth, Jim Kortge and George Heron are either  
here or at the airport. Jim Duffey is within 20 miles. JayBob does not  
have a diet pepsi in the house. Man, is it gonna be fun this weekend. Hope  
to see you here. 72, Doug

-----  
Date: Fri, 06 Apr 2001 15:39:44 -0400 (EDT)  
From: "John L. Sielke" <w2agn@pobox.com>  
To: qrp-l@lehigh.edu  
Subject: [95793] Blackout!  
Message-ID: <XFMail.010406153944.w2agn@pobox.com>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
MIME-Version: 1.0

I was playing with the radio earlier (about 1700Z). Had a nice QRP-QRP  
qso/ragchew with G4JZO on 10M. Heard a bit of DX on 20 and 17. Bands sounded  
good.

Just came in from walking the dogs, and couldn't hear a signal on any band with  
the K2. OH NO, the rig is broken, I thought, then I tried the Omni-C. Still no  
sigs. Checked the coax. SWR is OK. Then I checked the Cluster, and see a bunch

of entries saying BLACKOUT and OFF! in place of callsigns.

Is this from an earlier event, or is this something new?

John W2AGN

-----  
Date: Fri, 6 Apr 2001 14:43:19 -0500  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: "QRP List" <qrp-l@Lehigh.EDU>  
Subject: [95794] Dead air  
Message-ID: <012301c0bed1\$d6b56bb0\$af31aec7@dandooley>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Did my antenna fall down or did someone turn off the bands?

I hear nary a signal here in North Texas this afternoon. On any band.

Guess the solar disturbance is doing a number on the layers.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku  
e-mail to: dandooley@pipeline.com  
Web site: <http://www.qsl.net/wb9tka>  
SOC #198, FPQRP # -104  
May Goddes love blest ye alle  
"Ancient Pistol, I do partly understand your meaning."

-----  
Date: Fri, 06 Apr 2001 15:42:40 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: qrp-l@lehigh.edu  
Subject: [95795] Homebrew Quick and Dirty Breadboard  
Message-ID: <5.0.2.1.0.20010406145531.00a91980@KIH.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Dear gang,  
I wanted to put together a breadboard to try various ATU configurations so  
found an 8X8 inch piece of PC board for the base plate and ground  
plane. Then was  
casting about for a panel (since I dislike things flopping about) and spied  
an empty

plastic VHS cassette case.

I cut it at the hinge and had an instant rigid front panel to bolt to the PC board

with no angle brackets and the other half (with the hinge) serves as the back panel.

Then I zapped a bunch of holes for controls, connectors etc in both halves and bolted it all together with the ground plane up.

Now I can bolt on a couple of RS experimenter boards and every common connector plus controls and flop the back panel out of the way to make changes.

I'm sure that with a bit of creativity one could make some nice enclosures out of these things plus some PC board. Of course you would want to link together all the ground surfaces....food for thought.:-}

73 to all

Pete NV4V

-----  
Date: Fri, 6 Apr 2001 14:46:58 -0500

From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>

To: <w2agn@pobox.com>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>

Subject: [95796] RE: Blackout!

Message-ID: <000101c0bed2\$574dcce0\$ef5d6f81@v8.uthscsa.edu>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Yep, blackout! Fairly large M class flare about 30 minutes ago.

[http://www.sec.noaa.gov/rt\\_plots/dregion.html](http://www.sec.noaa.gov/rt_plots/dregion.html)

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU

> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of

> John L. Sielke

> Sent: Friday, April 06, 2001 2:40 PM

> To: Low Power Amateur Radio Discussion

> Subject: Blackout!

>

>

> I was playing with the radio earlier (about 1700Z). Had a nice QRP-QRP

> qso/ragchew with G4JZO on 10M. Heard a bit of DX on 20 and

> 17. Bands sounded

> good.

>  
> Just came in from walking the dogs, and couldn't hear a  
> signal on any band with  
> the K2. OH NO, the rig is broken, I thought, then I tried the  
> Omni-C. Still no  
> sigs. Checked the coax. SWR is OK. Then I checked the  
> Cluster, and see a bunch  
> of entries saying BLACKOUT and OFF! in place of callsigns.  
>  
> Is this from an earlier event, or is this something new?  
>  
> John W2AGN  
>

-----  
Date: Fri, 06 Apr 2001 12:00:54 -0800  
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>  
To: w2agn@pobox.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [95797] Re: Blackout! Depression? de AL7FS  
Message-ID: <3ACE2076.36C3BF9C@pobox.alaska.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Egads, is depression setting in at AL7FS? Will AL7FS survive his trip to KL7Y tomorrow? Is AL7FS on the edge of giving up...forever? Stay tuned as we all see if the bands kill AL7FS tomorrow on "As The World Burns". :-)

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska  
(BP51cc) - 61.101 North, 149.824 West  
<http://www.qsl.net/al7fs/>

"John L. Sielke" wrote:

> Just came in from walking the dogs, and couldn't hear a signal on any band with  
> the K2.....Then I checked the Cluster, and see a bunch  
> of entries saying BLACKOUT and OFF! in place of callsigns.

-----  
Date: Fri, 06 Apr 2001 20:17:10 +0100  
From: Larry Cahoon <lejek@erols.com>  
To: wb5rue@arrl.net, qrp-1@lehigh.edu

Subject: [95798] RE: Blackout!  
Message-ID: <5.0.2.1.0.20010406201551.009eda00@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 02:46 PM 04/06/01 -0500, you wrote:  
>Yep, blackout! Fairly large M class flare about 30 minutes ago.

It can't be all bad - I just worked KN4Y/M in GA a few minutes ago on 20 meters with 500 mWatts.

73 de Larry.....WD3P in MD  
<http://www.qsl.net/wd3p>

-----  
Date: Fri, 6 Apr 2001 16:25:20 -0400  
From: Richard Powell <ripowell@mpna.com>  
To: "'Dan W. Dooley'" <dandooley@pipeline.com>, QRP List <qrp-l@Lehigh.EDU>  
Subject: [95799] RE: [fpqrp] Dead air  
Message-ID: <01C0BEB6.2D143C00.ripowell@mpna.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

they turned off the bands...  
all of them  
[http://www.irf.se/mag/rtpplot\\_java.html](http://www.irf.se/mag/rtpplot_java.html)  
72 & oo's  
/rick

-----Original Message-----

From: Dan W. Dooley [SMTP:dandooley@pipeline.com]  
Sent: Friday, April 06, 2001 3:43 PM  
To: QRP List  
Subject: [fpqrp] Dead air

Did my antenna fall down or did someone turn off the bands?

I hear nary a signal here in North Texas this afternoon. On any band.

Guess the solar disturbance is doing a number on the layers.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku  
e-mail to: [dandooley@pipeline.com](mailto:dandooley@pipeline.com)  
Web site: <http://www.qsl.net/wb9tka>

SOC #198, FPQRP # -104

May Goddess love blest ye alle

"Ancient Pistol, I do partly understand your meaning."

-To unsubscribe, mail to majordomo@fpqrp.com, msg: unsubscribe fpqrp-l -

-----  
Date: Fri, 6 Apr 2001 15:35:53 -0500

From: "Jim" <sunwatt@starband.net>

To: "Don Wilhelm" <w3fpr@peoplepc.com>

Cc: <qrrp@yahooogroups.com>, "QRP-L" <qrp-L@Lehigh.edu>, "K2-L" <elecraft@qth.net>

Subject: [95800] Re: [Elecraft] SD-20 works great - Extendo Pole = better price?

Message-ID: <000a01c0bed9\$38ae46a0\$9a354794@computer>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Goto the main page <http://www.thesportsauthority.com/>

Click, Shop by Brand, input South Bend. Its about 8 or 9 pages into the search of all south bend products, and you'll find it.

BTW I looked for a Black Widow / SD-20 and never found one here! Hi!

\$14. good price!!

good luck, Jim KJ5TF

----- Original Message -----

From: "Don Wilhelm" <w3fpr@peoplepc.com>

To: "Jim" <sunwatt@starband.net>

Sent: Friday, April 06, 2001 13:34 PM

Subject: Re: [Elecraft] SD-20 works great - Extendo Pole = better price?

> Jim,

> I tried to find that pole on the website you mentioned, and could not find  
> it. Can you come up with a better URL?

> 73,

> Don Wilhelm -Chapel Hill, NC W3FPR home page:

> <http://www.w3fpr.webprovider.com>

> QRP-L # 485 K2 SN 0020 [mailto: w3fpr@arrl.net](mailto:w3fpr@arrl.net)

>

> ----- Original Message -----

> From: "Jim" <sunwatt@starband.net>

> To: "K2-L" <elecraft@qth.net>

> Cc: <qrp@yahoogroups.com>; "QRP-L" <qrp-L@Lehigh.edu>  
> Sent: Friday, April 06, 2001 1:54 PM  
> Subject: [Elecraft] SD-20 works great - Extendo Pole = better price?  
>  
>  
> > I already have the Black Widow 20ft pole. I've used it on the beach, and  
> in  
> > my north 40 field with great results.  
> >  
> > I searched <http://www.thesportsauthority.com/> and found an even price  
for  
> a  
> > 20ft pole. Its called the South Bend Extendo Pole. At \$14.97 the price  
is  
> > right. Looking at the best picture they have, it looks just like what I  
> have  
> > here.  
> >  
> >  
>  
<http://www.thesportsauthority.com/product/index.jsp?productId=8449&position=>  
> > 4  
> >  
> > I didn't make the SLV. I just cut a 14.060MHz 1/4 wave stinger and two  
> > radials.  
> >  
> > I soldered the bottom of the stinger to a so239, and soldered a 3" lead  
> wire  
> > to one of the ground holes on the so239 coax connector.  
> >  
> > There is an eye loop at the top of the pole, where I tie the top of the  
> > stinger. On 20M the pole is just long enough so everything fits great.  
> >  
> > I stab a 2ft long piece of construction rebar in the sand and slide the  
> big  
> > end of the pole down on that. This is all it takes to keep the pole  
> standing  
> > tall.  
> >  
> > Some old fiberglass 24" tent poles are stuck in the ground 1/4 wave  
length  
> > away from the base of the pole 180 degrees from each other. The 2  
radials  
> > are off the ground, and perform better that way.  
> >  
> > To change bands, I have a twisted wire connection I can separate and the  
> > stinger then becomes resonant for 21.060MHz. At the twist point I have  
> knots

> > tied in the wire, and a piece of string holds both sections together,  
but  
> > dos'nt allow the wires to touch.  
> >  
> > I then roll up the radials for 1/4 wave, at 21mHz, and I have knots tied  
> at  
> > the proper length on each radial for best SWR.  
> >  
> > When I go portable I keep it simple and chose two bands. Doing more than  
> > that when portable gets too complicated for my tastes.  
> >  
> > Check out some pics of my portable QRP-QRPp setup at my webpage. The  
> antenna  
> > can be seen there, but not in great detail.  
> >  
> > <http://sunwatt.homestead.com/slategap.html>  
> >  
> > But it might give you some idea of how simple this antenna is.  
> >  
> > 73's de Jim KJ5TF  
> > "All Milliwatts, All The Time"  
> > <http://sunwatt.homestead.com/Main.html>  
> >  
> >  
> > ---  
> > Submissions: [elecrafter@qth.net](mailto:elecrafter@qth.net) (You must be subscribed to post)  
> > Postings must be sent from the exact same addr. as subcribed.  
> > Please note: The list server automatically rejects HTML encoded emails.  
> > List Archive page: <http://www.qth.net/archive/elecrafter/elecrafter.html>  
> > Elecraft Web Page: <http://www.elecrafter.com>  
> >  
> >  
>

-----  
Date: Fri, 06 Apr 2001 21:01:38  
From: "Brad Hernlem" <[alihernlem@hotmail.com](mailto:alihernlem@hotmail.com)>  
To: [qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)  
Subject: [95801] Non-inductive Resistors  
Message-ID: <[F230wHsqhA53ZpEVmkW00000111b@hotmail.com](mailto:F230wHsqhA53ZpEVmkW00000111b@hotmail.com)>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

What is the best way to determine whether a resistor is inductive of not?

Brad



-----  
Get your FREE download of MSN Explorer at <http://explorer.msn.com>

-----  
Date: Fri, 06 Apr 01 22:34:34 +0400  
From: Oleg Borodin <Oleg.Borodin@p11.f35.n5036.z2.fidonet.org>  
To: qrp-1@lehigh.edu  
Subject: [95802] PIXIE: Broadcast interference  
Message-ID: <986600094@p11.f35.n5036.z2.ftn>

JW> From: John Wagner <john@neknetwork.com>  
JW> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

JW> I've seen a number of variations of cures for the broadcast  
JW> interference problem that the pixie suffers from.  
JW> Is there a "best" way to do it? I'd like to hear from folks who have  
JW> cured their pixie woes and what worked best for them. Thanks es 73,  
JW> John, KB1ENS

Dear John! That band have you made a Pixie? For 80m it work fine. But 40m  
evenings many QRM from broadcast radios because the broadcast band is near of  
40m (abt 7100-7400 kHz). This is a direct detection the strong AM signals  
effect (like detector's RX :-)) - this is a trouble of all DC-RX's, sorry.  
PS. This is in Russia, may be in USA any condition???

eng. Oleg V. Borodin 06 April 2001 23:13  
... God keep & bless you...

-----  
Date: Fri, 6 Apr 2001 15:12:33 -0600  
From: "Rod Cerkoney" <n0rc@hotmail.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [95803] HF Blackout?  
Message-ID: <0E51W4eE2FGwQ21ju2i000011c2@hotmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Yep! Another X flare at 1921 about X6!

Details at: <http://www.sec.noaa.gov/today.html>

73, Rod N0RC  
Ft Collins CO

-----  
Date: Fri, 06 Apr 2001 17:16:24 -0400  
From: lenny wintfeld <w2bvh@home.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [95804] What happens when 450-ohm ladder line gets wet ?  
Message-ID: <3ACE3228.A11F17F8@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Maxwell's Equation Experts!

Does anyone know how 450-ohm ladder line changes when it rains ? My ATU makes big changes to its normal setting when I try to load the antenna in the rain. Is the line's dissipation increased or does its impedance just change (or both) ?

If I had an R-X bridge - which I don't- I guess I could just make a measurement. But even so, that would just give me the "what", not the "why".

Thanks in advance for any insights.

Vy

73,

Lenny W2BVH

-----  
Date: Thu, 5 Apr 2001 05:18:50 -0400  
From: "ZOOM" <kandrparker@sympatico.ca>  
To: <alihernlem@hotmail.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [95805] Re: Non-inductive Resistors  
Message-ID: <006801c0bdb1\$6daa1ce0\$3294fea9@robertpa>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I don't know about the best cause that is subjective but this is the way I would do it:

- Use a signal generator and set-up the amplitude to about 1V.
  - Do a quick calculation to determine the output of a non inductive resistor with 1V applied.
  - Compare that with measured value.
  - Do this for at least three different frequencies and ensuring the output of the generator with no load connected is around 1V.
  - If it's inductive, as frequency increases, your output will decrease.
- $$2\pi FL = XL$$
- If not inductive, you should have about the same reading of output.

You can also use a GDO if you have one and parallel the resistor with a cap. At some point the GDO will dip if inductive cause you will reach a natural resonance between the cap and resistor. If inductive, then you can figure out the inductance by using the formula:

$$Fr = 1/[2\pi \sqrt{LC}]$$
  
 Transpose to find L

You could also find the resonace freq using a signal generator but you would have to measure adjust the generator until max output. The problem with this method is that the signal generator does not maintain a constant output as it is increased in frequency and therefore you should readjust the output before taking a reading. Depending on the generator, this may not be a problem.

I hope this helps,  
 Rob  
 VE3RPF

----- Original Message -----

From: "Brad Hernlem" <alihernlem@hotmail.com>  
 To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
 Sent: Friday, April 06, 2001 9:01 PM  
 Subject: Non-inductive Resistors

> What is the best way to determine whether a resistor is inductive of not?  
 >  
 > Brad  
 > -----  
 > Get your FREE download of MSN Explorer at <http://explorer.msn.com>  
 >  
 >

-----

Date: Fri, 06 Apr 2001 17:32:24 -0400  
From: "Mark J. Dulcey" <mark@buttery.org>  
To: w2bvh@home.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [95806] Re: What happens when 450-ohm ladder line gets wet ?  
Message-ID: <3ACE35E8.E101E1C0@buttery.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

lenny wintfeld wrote:

>  
> Hi Maxwell's Equation Experts!  
>  
> Does anyone know how 450-ohm ladder line changes when it rains ? My  
> ATU makes big changes to its normal setting when I try to load the antenna  
> in the rain. Is the line's dissipation increased or does its impedance just  
> change (or both) ?  
>  
> If I had an R-X bridge - which I don't- I guess I could just make a  
> measurement. But even so, that would just give me the "what", not the  
> "why".

The impedance of ladder line certainly changes in the rain, because the dielectric constant of the insulator (which is mostly air in ladder line) changes. Since the dielectric is more conductive, the loss of the line will also increase; basically, to have a no-loss line, you would need to have a perfect insulator between the conductors, not to mention conductors with no ohmic loss. But the loss of ladder line is low enough that it's not likely to be a big deal.

If you have a resonant antenna, moisture can also detune it, which will usually decrease the gain of the antenna. The effect will be most severe for antenna types where the tuning is critical to performance, such as yagis, and for narrowband antennas like shortened verticals.

Up in the microwaves, where you won't be using ladder line, rain causes different problems. The big one is that moist air absorbs more signal than dry air, so the atmospheric path loss increases. Atmospheric absorption (because of moisture, anyhow) isn't significant at HF.

-----

Date: Fri, 06 Apr 2001 21:40:59  
From: "Mike WA8BXN" <hubby2k@hotmail.com>  
To: alihermlem@hotmail.com, qrp-l@Lehigh.EDU  
Subject: [95807] Re: Non-inductive Resistors

Message-ID: <F182CJnEMzAUor03u9P0000188c@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

The best way obviously is to measure its inductance! But mostly it means don't use a wire-wound resistor. Usually hepwer resistors are wire-wound.

>What is the best way to determine whether a resistor is inductive of not?

-----  
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-----  
Date: Fri, 6 Apr 2001 17:49:17 -0400  
From: Bill Lazure <n2tpa@juno.com>  
To: qrp-1@lehigh.edu  
Subject: [95808] OT: ARRL Troubleshooting Certification Course  
Message-ID: <20010406.174934.-319957.0.n2tpa@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Folks,

Please pardon this O/T post, and feel free to delete at any time.

Remember last year when the ARRL was trying to establish certification courses? Most were shelved in favor of the emergency/disaster operations course. Now that it's nearly done, attention has turned back to the others.

I'm pushing for the troubleshooting course, but it's sorely lacking in participation. I hope that it's just due to a lack of knowledge of it's existence rather than apathy.

Knowing that many QRP ops are technically oriented, I figured this would be a good place to seek volunteers. Anyone interested in helping out can go to the Troubleshooting forum at:  
[http://www.arrl.org/members-only/forums/w-agera.php3?bn=agera\\_certtrouble](http://www.arrl.org/members-only/forums/w-agera.php3?bn=agera_certtrouble)  
to see what's been discussed so far.

Once again, please pardon the intrusion.

73,

Bill  
W2EB

-----

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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 06 Apr 2001 21:55:53  
From: "Brad Hernlem" <alihernlem@hotmail.com>  
To: hubby2k@hotmail.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [95809] Re: Non-inductive Resistors  
Message-ID: <F72yt3cew8k69RKLpgT00001502@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

What about metal film resistors? Are any of them sufficiently inductive to be of any concern at HF? I broke open a 100 ohm resistor to have a look inside and found that it is cut in a spiral with a single turn. I wouldn't think that such a design would have much inductance.

Brad

>From: "Mike WA8BXN" <hubby2k@hotmail.com>

>The best way obviously is to measure its inductance! But mostly it means  
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>

>

>>What is the best way to determine whether a resistor is inductive of not?

>

-----  
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-----  
Date: Fri, 06 Apr 2001 18:08:46 -0400  
From: John Wagner <john@neknetwork.com>  
To: Oleg.Borodin@p11.f35.n5036.z2.fidonet.org  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [95810] Re: PIXIE: Broadcast interference  
Message-ID: <3ACE3E6E.D180F0B6@neknetwork.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello Oleg,

The Pixie is for 80m, sorry, I should have mentioned that.

It sounds like AM, english speaking.

I haven't tried any of the suggestions I've received yet but will post when I do.

Thanks es 73,

John, KB1ENS

Oleg Borodin wrote:

>  
> JW> From: John Wagner <john@neknetwork.com>  
> JW> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
>  
> JW> I've seen a number of variations of cures for the broadcast  
> JW> interference problem that the pixie suffers from.  
> JW> Is there a "best" way to do it? I'd like to hear from folks who have  
> JW> cured their pixie woes and what worked best for them. Thanks es 73,  
> JW> John, KB1ENS  
>  
> Dear John! That band have you made a Pixie? For 80m it work fine. But 40m  
> evenings many QRM from broadcast radios because the broadcast band is near of  
> 40m (abt 7100-7400 kHz). This is a direct detection the strong AM signals  
> effect (like detector's RX :-)) - this is a trouble of all DC-RX's, sorry.  
> PS. This is in Russia, may be in USA any condition???  
>  
> eng. Oleg V. Borodin 06 April 2001 23:13  
> ... God keep & bless you...

--

John Wagner - john@neknetwork.com  
Web page: <http://www.neknetwork.com>

-----  
Date: Fri, 06 Apr 2001 22:14:58  
From: "Mike WA8BXN" <hubby2k@hotmail.com>  
To: alihernlem@hotmail.com, qrp-l@Lehigh.EDU  
Subject: [95811] Re: Non-inductive Resistors  
Message-ID: <F61ox7nyeKzGZuNY1SW00004b69@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

How much is too much? A good question.... what are you using the resistor for? If you wanted a perfect dummy load at 1 GHz, it probably would not work. In your circuit, do you worry about the inductance of 3 or 4 inches of wire? Its all relative. I think I have read that for HF, metal film resistors are generally ok. Out of curiosity, you might want to crack open a 1 meg ohm metal film resistor and see if it has more turns. That would give you more inductance of course. But on the other hand the reactance of some inductance compared to a meg of resistance can be ignored.

Also recall if you are going to parallel resistors for a dummy load the resulting inductance goes down.

>What about metal film resistors? Are any of them sufficiently inductive to  
>be of any concern at HF? I broke open a 100 ohm resistor to have a look  
>inside and found that it is cut in a spiral with a single turn. I wouldn't  
>think that such a design would have much inductance.

-----  
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Date: Fri, 6 Apr 2001 16:01:29 -0600  
From: "T.W." <wb5qyt@abq.com>  
To: <qrp-1@lehigh.edu>  
Subject: [95812] Antlers in trees  
Message-ID: <MABBIKAEJKMHLIDGCMCKKELOCGAA.wb5qyt@abq.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Gang,

The best antenna launcher I have ever used is the PAL(pnuematic antenna launcher). Just a fancy name for a spud gun that uses air to launch the projectile HIGH into the trees.

I have tried bow and arrows, sling shots, water bottles etc., and none hold a candle to the PAL.

Will be bringing my PAL to the Flag hamfest for another demo(last one 1999).

Please use common sense when using the above and obey all local laws(if any) concerning the use.

72, Tom WB5QYT...."No tree too tall!"....."Have spud will travel!"



-----  
Date: Fri, 06 Apr 2001 18:25:17 -0400  
From: "Phil (VA3UX)" <phil@vaxxine.com>  
To: alihernlem@hotmail.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [95813] Re: Non-inductive Resistors  
Message-ID: <3.0.5.32.20010406182517.007b4880@vaxxine.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 09:01 PM 4/6/2001, you wrote:

>What is the best way to determine whether a resistor is inductive or not?  
>

Measure it's inductance ( inductive reactance) at the frequency of interest, ideally with an RF impedance bridge. Since these bridges are few and far between, the next best device would be AADE's L/C II meter or an HP RLC bridge (the one that operates at 1 Mhz). Barring that, a few simple rules can be used :

- 1) A carbon composition resistor is non-inductive for all practical purposes.
- 2) Metal film and carbon film resistors have some inductance but it is usually small enough (in the nH range) that it can be ignored for MOST (not all) HF applications. These are inductive because the resistive element is a film cut in a spiral (an inductor). Some manufacturers will list the inductance in their data sheets/catalogs, but some don't.
- 3) Almost all wire wound resistors ARE inductive. The resistive element is a spiral of wire (another inductor). The wirewounds that are labeled as "non-inductive" have two layers of windings, each wound in separate directions. This causes the flux from the inductance in one winding to be cancelled by the equal and opposite flux in the other winding. I don't know how suitable these are for RF work - they certainly would be sufficiently non-inductive for audio work. They may be fine for RF work but I don't have any experience with them.

Phil

>Brad

>-----  
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>  
>

>

-----  
Date: Fri, 06 Apr 2001 22:40:31  
From: "laura halliday" <marsgal42@hotmail.com>  
To: qrp-1@lehigh.edu  
Subject: [95814] Re: Non-inductive Resistors  
Message-ID: <F994KWiGtXsL1c00goZ000000030@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Brad Hernlem (alihernlem@hotmail.com) wrote:

>What about metal film resistors? Are any of them  
>sufficiently inductive to be of any concern at HF?  
>(snip...)

No.

Did you have any particular resistor in mind when you  
asked the original question?

Laura Halliday VE7LDH        "Que les nuages soient notre  
Grid: CN89mg                        pied a terre..."  
ICBM: 49 15.042 N 122 59.053 W       - Hospital/Shafte

-----  
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-----  
Date: Fri, 06 Apr 2001 18:47:06 -0400  
From: "Phil (VA3UX)" <phil@vaxxine.com>  
To: w2bvh@home.com, qrp-1@Lehigh.EDU  
Subject: [95815] Re: What happens when 450-ohm ladder line gets wet ?  
Message-ID: <3.0.5.32.20010406184706.007b7d40@vaxxine.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Wes Stewart, N7WS, did an excellent and highly technical write-up of ladder  
line characteristics, including wet vs dry characteristics. Damned if I  
can find his website, but I do have a copy of the article in pdf format if  
anyone is interested.

Does this mail reflector accept attachments ?

Phil

At 05:16 PM 4/6/2001 -0400, you wrote:

>Hi Maxwell's Equation Experts!

>

> Does anyone know how 450-ohm ladder line changes when it rains ? My  
>ATU makes big changes to its normal setting when I try to load the antenna  
>in the rain. Is the line's dissipation increased or does its impedance just  
>change (or both) ?

>

> If I had an R-X bridge - which I don't- I guess I could just make a  
>measurement. But even so, that would just give me the "what", not the  
>"why".

>

> Thanks in advance for any insights.

>

>

>73,

>

>

>Lenny W2BVH

>

>

>

Vy

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End of QRP-L Digest 2151

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